CLASSIFICATION: UNCLASSIFIED

BUDGET I	TEM JUST	IFICATI	ON SHEET	-		DATE:					
	P-4	10						February	2004		
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NO	MENCLATURE						
Aircraft Procurement, Navy/APN	N-5 Aircraft Mo	odifications	i				S-3 Series Mo	difications			
Program Element for Code B Items:				Other Related	Program Elen	nents					
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST											
(In Millions)	375.8		29.6	8.3	1.9	0.8	0.8	0.5	0.0	0.0	417.6

This line item funds modifications to S-3 aircraft. The S-3B is a carrier based, all weather, high wing, high subsonic, twin engine, multi-mission aircraft capable of Anti-Surface Warfare (ASUW) operations and tanking. The overall goal of the modifications budgeted in FY2005 is to continue the UHF/VHF communications improvement and the Co-Processor Memory Unit efforts; and to upgrade critical avionics, and critical structures within the aircraft. Total Active Inventory (TAI) is 111. The S-3B will reach end of service in 2015. The specific modifications budgeted and programmed are:

(TOA, \$ in Millions)

OSIP No.	Description	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To <u>Complete</u>	<u>Total</u>
39-94	UHF/VHF Comm. Impr. Prog.	85.1	19.0	7.7	1.9						113.6
12-95	Critical Structures	50.1	2.5	0.5							53.1
20-95	Critical Avionics Upgrade	192.8	5.6								198.4
4-96	Co-Processor Memory Unit	47.8	2.5	0.1							50.5
XX-06	Flight Critical Systems Sustainment					0.8	0.8	0.5			2.0
TOTAL		375.8	29.6	8.3	1.9	0.8	0.8	0.5			417.6

Totals may vary due to rounding

CLASSIFICATION:

DD Form 2454, JUN 86

UNCLASSIFIED

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Ultra High Frequency (UHF) / Very High Frequency (VHF) Communications Improvement Program (CIP) (OSIP 39-94)

MODELS OF SYSTEM AFFECTED: S-3B

TYPE MODIFICATIO Operational Improvement

DESCRIPTION/JUSTIFICATION:

The S-3B has an operational requirement for reliable UHF and VHF communications. The current UHF radio (AN/ARC-156) suffers from serious reliability and obsolescence problems, and lacks the internal intermodulation protection required for proper operation in today's operational environment. The AN/ARC-187 UHF radio to be installed is a derivative of the AN/ARC-164 which is presently utilized by the Air Force and would correct the above mentioned deficiencies. The installation also permits compatibility with the J-CS requirements for UHF Satellite Communications (SATCOM) users. The radio is common with the P-3C aircraft and this commonality will significantly reduce logistic support requirements. The S-3B does not currently have a VHF radio, which is required by International Air Traffic Control regulations and represents a potential safety flight problem when operating in international airspace and with foreign air fields. The AN/ARC-182 is the Navy's standard VHF radio for tactical aircraft and provides the VHF capability required. One AN/ARC-182 radio will be installed in 84 S-3B aircraft. This modification is validated in ORD 393-88-95, approved 23 Mar 95. S-3B ECP#423 constitutes the CIP integration, and Communication Control Group (CCG) modification.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The AN/ARC-182 has Approval for Full Production (AFP), and will be verified in the S-3B with trial kit installation (TKI). The AN/ARC-187 installation was verified in the S-3B with Trial Kit Installation. Milestone III Approval for Full Production for S-3B Communications Improvement Program was granted on 23 June 1995.

FINANCIAL PLAN (TOA, \$ in Millions):

	Prior \	/ears	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	To C	omplete	TO	TAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
PROTOTYPE/TKI	2	1.8																	2	1.
CIP A Kit	61	15.5	16	3.3	5	1.2													82	19.
MD-1324 Modern Control Mod	Kit																			
Installation Kits N/R		11.4																		11.
Installation Equipment																				
ARC-182 - R/T & Mount	62	*	19	٠	5	٠													86	
MD-1324 Modem	62	1.9	19	.6	5	.2													86	2
MD-1324 Modern Control		*				٠														
Crypto Fill Panels (2 per A/C)	124	.1	38		10	٠													172	
CCG Modification	68	17.3	19	4.3	5	1.3													92	22.
AS-3557 Antenna	62	.2	19	.1	5	٠													86	
Diplexer Preamp	62	.4	19	.1	5	٠													86	
ARC-187 - B Kit (2 per A/C)	124	10.3	38	2.9	10	.7													172	13.
Installation Equipment N/R		1.4																		1.
Engineering Change Orders																				
Data		1.9		.5																2.
Training Equipment	8	4.4																	8	4.
Support Equipment		1.5																		1.
ILS		1.9		.5		.4		.1												2.
Other Support		11.1		3.4		1.1		.3												15.
Interim Contractor Support																				
Installation Cost	36	4.0	25	3.1	19	2.7	12	1.4											92	11
TOTAL PROCUREMENT	635	85.1	187	19.0	50	7.7	l	1.9	l		l					l			872	113

Notes:

- 1. Totals do not add due to rounding
- 2. Asterisk indicates amount less than 51K
- ** AN/ARC-182 radios to be obtained from F/A-18 or other aircraft installing AN/ARC-210 radios.

Exhibit P-3a																						
MODELS OF	SYSTEMS	AFFECTE	D:	S-3B						MODIF	ICAT	ION T	ITLE:	UHF/	/HF C	ommu	nicatio	ns Impr	oveme	ent Prog	ram (O	SIP 39
INSTALLATI	ON INFORM	MATION:																				
METHOD OF	IMPLEME	NTATION:		Contr	actor	Field ⁻	Геат															
ADMINISTRA	ATIVE LEAD	OTIME:			6	М	onths				PRO	DUCT	ION L	.EADT	IME:	12		Months	_			
CONTRACT	DATES:			FY:	2003:	3/03		FY:	2004:	3/04		FY:	2005:									
DELIVERY D	ATE:			FY:	2003:	3/04		FY	2004:	3/05	,											
							•							lillions								
	Cost:		Prior \	Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	To C	omplete	TO	TAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	k PY (71) kit	ts	36	4.0	25	3.1	10	1.4													71	
FY 2003 (9	1.3													16	2.1
FY 2004 (5	.6											5	.6
FY 2005 (
FY 2006 (
FY 2007 (
FY 2009 (
To Compl																						
TOTAL *			36	4.0	25	3.1	19	2.7	12	1.4											92	11.3
** Includes		all(s).																				
	FY 2002	FY	2003				FY 2	2004			FY 2	005			FY 20	006	1			2007		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
In Out	36		9	9	7		6	6	7		4	4	4									
Out	36		9	9	7		6	6	7		4	4	4		l l		l					J
		FY 2008			_		2009		1	Го												
	1	2	3	4	1	2	3	4	Con	plete		TAL										
In Out												92										
Out				<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>			14	<u> </u>									

Exhibit P-3a	INDIVIDUAL MODIFICATION	
MODIFICATION T Critical Structures (OSIP 12-95)		
MODELS OF SYSTEM AFFECTE S-3B	TYPE MODIFICATION: SLEP	

DESCRIPTION/JUSTIFICATION:

S-3 aircraft are included in the Naval Aviation Plan to support the carrier Battle Group through CY 2015. The S-3A aircraft was procured from 1972 to 1976 (1960's design/avionics technology), based on ORD #0927-AS dated 25 Mar 77. The S-3B Weapons System Improvement Program, which modified the S-3A to an S-3B, focused primarily on weapon system upgrades for mission enhancement and did not upgrade the critical airframe safety of flight avionics systems. This upgrade is a series of modifications required in order to ensure effective, safely flyable aircraft through the year 2015. Specifically, the Critical Structures Upgrade modification includes replacement of the windshield temperature controller and the following airframe components: wingfold rib, horizontal stabilizer hinge fitting, flight control elements, fuel flow/bleed air select vent valves, counterweights, and flap tack ribs. The Service Life Assessment Program (SLAP) (FY98) will certify that the fatigue and operational loads of the aircraft are accurately represented in the full scale reaction frame.

RECURRING KIT STATUS: The Critical Structures Airframe kit (consisting of horizontal stabilizer hinge fitting - ECP AL-808, counterweights - ECP AL-802, flap track ribs - ECP AL-796, and flow/bleed air select vent valves ECP AL-789), the Flight Control Elements kit, - ECP-AL807-R1 and the Inner Wing Empennage Kit for all 111 S-3B aircraft. Starting in FY01 the Wingfold Rib program has been terminated and funds were reprioritized to UHF/VHF Comm Improvement Program (OSIP 39-94).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Replacement of the airframe components/windshield temperature controller does not require any development. Non-recurring engineering for all five components were completed in FY1995, first production buy began in FY1996 and installs commenced in FY1997. The non-recurring engineering will include design and integration efforts of Critical Structures airframe components.

FINANCIAL PLAN (TOA, \$ in Millions):

	Prior	Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY:	2009	To C	omplete	TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E - H2452		45.5																		45.
PROCUREMENT																				
Installation Kits																				
Critical Structures Airfran	111	3.9																	111	3.
Flight Controls Elements	111	3.5																	111	3
Inner Wing BL144	111	1.4																	111	1
Inner Wing BL71	112	.2																	112	
Inner Wing BL58/70 **		**		**		**														
Installation Kits N/R		19.8																		19
Installation Equipment																				
Inner Wing BL58/70 **		**		**		**														
Installation Equipment N/F	?																			
Engineering Change Orde	rs																			
Data		.2																		
Training Equipment		.2																		
Support Equipment																				
ILS		.1																		
Other Support		4.5		.9		.5														5
Interim Contractor Suppor	t																			
Installation Cost	111	16.2		1.6															111	17
TOTAL PROCUREMENT	445	50.1		2.5		.5													445	53

Notes:

- 1. Totals do not add due to rounding
- ** No A kits required. B kits provided by supply system.
- 2. Asterisk indicates amount less than 51K

Exhibit P-3	За																						
MODELS	OF SYS	TEMS AF	FECT	S-3B					N	ODIF	ICAT	ION T	ITLE:				(OS 44 (AF						
INSTALLA	TION IN	FORMAT	ION:											minor	vvillg	<u>DL</u>	(/ 11	0 200	,				
METHOD	OF IMPL	_EMENTA	ATION	INADE	P/Co	ntract	or Fie	ld Mo	d Tea	ms													
ADMINIST	RATIVE	LEADTIN	ΛE:		4	М	onths				PRO	DUCT	ION	LEADT	TIME:	9	N	/lonths	_				
CONTRAC	CT DATE	S:		FY 2	2003:		-	FY	2004:		_	FY 2	2005:		-								
DELIVER	PELIVERY DATE: FY 2003: FY 2004: FY 2005: (\$ in Millions)																						
													(\$	in Milli	ions)								
	Cost:		Prior	Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY:	2008	FY:	2009	7	ГС	TOT	'AL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
FY 200	2 & PY (108) kits	97	2.2	3	0.5	8	*													108	2.7	
FY 200	3 () kits																						
FY 200	4 () kits																						
FY 200	-																						
FY 200																							
FY 200																							
FY 200																							
FY 200		rito																					
TOTAL	nplete () I	(IIS	97	2.2	3	5	8	*													108	2.7	
		ılls in FY0		2.2	3	.5	0														100	2.1	
				Pacific	(CSC	(WP)	nlann	ed to i	nstall	BI -14	4 (AF	C-285	i) duri	na IM(C Insr	ection	s The	war o	reated	l non-av	/ailahilit\	of aircraft for FY-03 installations,	
		8 installat	-		•	,					. (,									,	
Installation	on Sched	lule																					
	FY 2002	F	Y 20	03			FY 2	2004			FY 2	2005			FY	2006			FY	2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	97		1		2	2	2	2	2														
Out	85	12	1		2	2	2	2	2														
		EV 202	0			EV.	2000		Π.	Г.													
	1	FY 200	3	4	1	2	2009	4		Γο nplete	ΤO	TAL											
In				-				-	2011	0.00		08											
Out												08											

Exhibit P-3a																						
MODELS OF	SYSTEM	S AFFEC	TED:	S-3B						М	ODIFIC	ATION	TITLE:	Critical Inner W	Structu	res (O	SIP 12-	95)				
INSTALLATIO	ON INFOR	RMATION	:												9 .	,_,,						
METHOD OF	IMPLEM	ENTATIO	N:	NADE	P Field	Mod Te	am															
ADMINISTRA	ATIVE LEA	ADTIME:			1		Months				PROD	UCTIO	N LEAD	TIME:		2		Months	<u>.</u>			
CONTRACT	DATES:		FY	2003:		FY	2004:		F	Y 2005:		-										
DELIVERY D	ATE:		FY	2003:		FY	2004:		F	Y 2005:		•										
													(\$ in M	illions)								
	Cost:		Prior	Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	1	ГС	TO	TAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2002 8) kits	112	.5																	112	
FY 2003 (
FY 2004 (
FY 2005 (+																			
FY 2006 (
FY 2007 (
FY 2008 (
To Compl																						
TOTAL	oto () into		112	.5																	112	
Installation	Schedule																					
	FY 2002		FY 20	03			FY:	2004			FY	2005			FY 2	2006			FY 2	2007		
_	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
In	112		1		<u> </u>																	
Out	112																					I
		FY 20	08			FY	2009			То			1									
	1	2	3	4	1	2	3	4	1	nplete	тс	TAL										
In												12	1									
Out												12	1									
													•									

Exhibit P-3a																								
MODELS OF	SYSTEM	IS AFF	ECTED	S-3B						M	ODIFIC	CATION		Critical Flight C				95)					 	
INSTALLATION	ON INFO	RMATIO	ON:											r light C	OHIO L	<u> </u>	<u> </u>							
METHOD OF	IMPLEM	IENTAT	ION:	NADEP	Field M	lod Tean	n																 	
ADMINISTRA	ATIVE LE	ADTIM	Ε: .		4	M	Months	_			PROD	UCTION	N LEAD	TIME:		9		Months	<u> </u>					
CONTRACT	DATES:		ı	FY 2003:		F	Y 2004:		_ F	Y 2005:		_												
DELIVERY D	ATE:		ı	FY 2003:		F	Y 2004:		_ F	Y 2005:		-												
													(\$ in Mi	llions)										
	Cost:		Prior	r Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	F`	Y 2009		TC	ТО	TAL		
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
FY 2002 8	& PY (111) kits	111	6.3																	111	6.3		
FY 2003 () kits																							
FY 2004 () kits																							
FY 2005 () kits																							
FY 2006 (() kits																							
FY 2007 (() kits																							
FY 2008 () kits																							
FY 2009 (() kits																							
To Compl	ete () kits																							
TOTAL			111	6.3																	111	6.3		
Installation		e				ı																Ī		
	FY 200		1 1	2003			1	2004			1	2005	Ι.		1	2006			FY 2	ı	1.			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
ln O. /	111																							
Out	107	4																						
		FY 2	2008			FY	2009			То														
	1	2	3	4	1	2	3	4	Con	nplete	TC	TAL												
In		-		-							1	111	1											
Out											1	111												
													_											

Exhibit P-3a	a																								
MODELS C	F SYSTE	MS AFF	ECTE	S-3B						_ N	ODIFIC	CATION				res (OS								 	
INSTALLAT	TION INFO	RMATI	ON:											Ontiour	Otradia	100711111	uno ru	•							
METHOD C	OF IMPLEI	MENTA	TION:	Contrac	tor Field	d Mod To	eam																	 	
ADMINIST	RATIVE LI	EADTIN	IE:		4	I	Months	_			PROD	UCTION	N LEAD	TIME:		9		Months	<u>-</u>						
CONTRAC	T DATES:		F	Y 2003:		F'	Y 2004:		_ F	Y 2005:		-													
DELIVERY	DATE:		F	Y 2003:		F	Y 2004:		_ F	Y 2005:		-													
					ī		1				Millions		I		T		ı						1		
	Cost:			Years		2003	1	2004	1	2005		2006		2007	FY	2008		2009		mplete		DTAL			
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			
	2 & PY (11	1) kits	111	6.3																	111	6.3			
FY 2003																									
FY 2004																									
FY 2005																									
FY 2006																									
FY 2007																									
FY 2008																									
FY 2009) () kits plete () kit	•																							
TOTAL	piete () kit	5	111	6.3																	111	6.3			
Installatio	n Schedu	le		0.3																		0.3	I		
	FY 2002		FY:	2003			FY	2004			FY:	2005			FY 2	2006			FY 2	2007					
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1			
In	111																								
Out	107	4																							
		EV 0	000		1	EV.	0000		Τ.				1												
	1	FY 2	3	4	1	2	2009	4	1	To nplete	тс	TAL													
In	- -		J	7	<u>'</u>		3	1 7	001	ilhiere	† 	111	1												
Out							1				1	111	1												
			ı			1	1	1					1												

MODELS INSTALL		ΓEMS A	FFECTE																			
INSTALLA	OF SYST	ΓEMS A	FFECTE			Exhibit P-3a																
				S-3B						MODII	FICAT	ION T		Critica								
METHOD	ATION INI	FORMA	TION:												9							
METHOD	OF IMPL	EMENT	TATION:	NADE	EP Fie	ld Mod	l Tear	n/MIP														
ADMINIST	TRATIVE	LEADT	IME:			М	onths	_			PRO	DUCT	ION L	EADT.	IME:		Мо	nths	-			
CONTRA	CT DATE	S:	FY	2003	:	_	FY	2004:			FY	2005:										
DELIVER'	Y DATE:		FY	2003	:	-	FY	2004:			FY	2005:										
											(9	\$ in Mil	llions)									
	Cost:		Prior Y	/ears	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	To Co	mplete	TC	TAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 200	2 & PY ()	kits *	49	.8	3																49	.8
FY 200	3 () kits *				42	1.0															57	1.0
FY 200	4 () kits *						15	**												Ш	15	**
FY 200	5 () kits																			ш	\sqcup	
FY 200	6 () kits																			ш	\sqcup	
FY 200																				Ш		
	8 () kits																			Ш		
FY 200																				igsqcup	\longmapsto	
	nplete () k	kits										-								Ш		
TOTAL			49			•		**												ш	106	1.8
	its requir			ded by	supp	ly syst	em.															
	unds inst																					
	nder, Sea		-			NP) pl	anne	d to ins	tall B	L-58/7	0 (AF	C-292)) durir	ng IMC	Inspe	ections	s. The	war o	create	d non-	availab	ility of
therefore	moving	15 insta	allations	to FY0)4.																	
Installati	on Sched	lule																				
F	Y 2002		FY 20	03			FY	2004			FY 2	2005			FY 2	2006			FY	2007	\neg	1
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
In	49	10	10	10	12	4	4	4	3													1
Out	37	12	10	10	10	12	4	4	4	3												i
г		=1/0/			1					_			1									
-	1	FY 20	3	4	1	FY:	2009	4	1	Γο nplete	то	TAL										
	<u> </u>			Ė	Ė		Ť	Ė	. 5011	,5.0		06	1									
In											<u> </u>											
In Out											1	06										

Exhibit P-3a		INDIVIDUAL MODIFICATION		
MODIFICATION TITLE S-3 Critical Avi	ionics Upgrade (OSIP 20-95)			
MODELS OF SYSTEM AFFECTED:	S-3B	TYPE MODI	FICATION:	Operational Improvement/Obsolescence
DESCRIPTION/JUSTIFICATION:				
obsolescence/non-supportability de the airframe. Trainer procurement	egraders for the S-3B aircraft. Modification of these criti	cal avionics systems will ensure respective system of papons Systems Trainers (WST), Position Trainer Co	peration and	ent Control Systems (ARMCOS) which have become significant dayailability for the current and projected (2015) service life of elles (PTCM) and Maintenance Trainers. The requirement for
				onent of the Automatic Flight Control System (AFCS). The cation will be installed in all of the existing 109 S-3B aircraft.
replacement program for the S-3B condition of the chassis and international instruments to the navigation system.	al wiring. Replacement avionics hardware consists of a	ed flight instruments. The existing system has beco CAINS II, an EGI, four new EFIs for the cockpit, and	me increasing d 1553B digita	FLIGHT INSTRUMENTS (EFI) (ECP 427): This is a gly non-supportable due to parts obsolescence and material al Navigation Interface Unit (NIU) which connects the flight necessary for embarked operations or night/instrument flight.
3 Armament Control System (ARM)		MS) including small circular error probability weapor	n. An operab	omb Bay/Wing Decoders and wiring that comprise the current Sole SMS is required for loading, carriage and/or jettison of any sprocured for 43 aircraft.
DEVELOPMENT STATUS/MAJOR DE	EVELOPMENT MILESTONES:			
	vionics Upgrade approved Oct 1995. DFDC hardware C 998. RFP for SMS released May 1998. Displays CDR		testing comm	nenced DEC 97. CAINS/EGI/EFI system CDR held OCT 97,

Exhibit P-3a		INDIVIDUAL MODIFICATION	
MODIFICATION TITLE S-3 Critical Avid	nics Upgrade (OSIP 20-95)		
MODELS OF SYSTEM AFFECTED:	<u>S-3B</u>	TYPE MODIFICATIC Safety/Obsolescence	

FINANCIAL PLAN (TOA, \$ in Millions):

	Prior \	Years	FY:	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	To Co	mplet	ТО	TAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Installation Kits ***																				
SMS (ARMCOS)	42	2.0																	42	2.0
CAINS/EFI/NIU	111 ***	17.8																	111	17.8
Installation Kits N/R		15.7																		15.7
Installation Equipment																				
DFDC	92 ***	8.4																	92	8.4
CAINS	111 ***	43.1																	111	43.1
SMS (ARMCOS)/MAVERICK PLI	43	6.3																	43	6.3
Installation Equipment N/R		31.4																		31.4
Engineering Change Orders																				
Data		1.4																		1.4
Training Equipment		8.4		.4																8.8
Support Equipment																				
ILS		2.1																		2.1
Other Support		44.4		2.3																46.8
Interim Contractor Support																				
Installation Cost		11.7		2.9																14.7
TOTAL PROCUREMENT	422	192.8		5.6															399	198.4

Notes:

- 1. Totals do not add due to rounding
- 2. Asterisk indicates amount less than 51K
- *** One (1) Prototype (CAINS,DFDC,ARMCOS) and one (1) Trial Kit Installation (TKI) (CAINS,DFDC) procured via NRE will be installed in fleet aircraft bringing total aircraft to 111. Remaining nineteen (19) DFDC procured by ES-3A program.

xhibit P-3a	l																						
ODELS O	F SYSTEM	S AFFECT	ΓED:	S-3B						MOD	IFICAT	ΓΙΟΝ Τ	ITLE:	S-3 C	ritical	Avioni	cs Up	grade (OSIP	20-95) SMS	S (ARM	COS)
NSTALLAT	ION INFOR	RMATION:																					
METHOD C	F IMPLEM	ENTATION	N:	Contra	actor F	Field Mo	od Tea	ım															
	RATIVE LEA			00		Mo					DDOI	NICT!	2N.L.E	ADTII	ME.	10		Montho					
		ADTIME:						-				DUCTIO			VIE:	12		Months	-				
CONTRACT	DATES:		FY	2003:		-	FY	2004:			FY	2005:	-										
DELIVERY	DATE:		FY	2003:		_	FY	2004:			FY	2005:											
												(\$ in	Millio	ns)									
	Cost:		Prior \	/ears	FY	2003	FY	2004	FY:	2005	FY:	2006	FY	2007	FY	2008	FY	2009	7	С	TC	TAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
FY 2002	& PY (42) I	kits *	14	2.6	28	0.5															42	3.2	[
FY 2003	() kits																						1
FY 2004	() kits					<u> </u>																	1
FY 2005	() kits					<u> </u>																	1
FY 2006	() kits					<u> </u>																	1
FY 2007	() kits					<u> </u>																	1
FY 2008	() kits																						1
FY 2009	() kits									ļ													1
	lete () kits									ļ!													1
TOTAL			14	2.6	28	.5															42	3.2	i
Twenty-fiv	s one (1) Pr e (25) insta n Schedule		in FY02	will b	e insta	alled ir	n FY0	3.															
1	FY 2002	F	Y 2003			F	Y 200)4		F	Y 200	5		F	Y 200)6			FY 2	2007]	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	14	7	9	7	5																		
Out	12	8	8	7	7																		
													1										
		FY 2008	8			FY 2	2009	ı		То													
	1	2	3	4	1	2	3	4	Com	plete	ТО	TAL	1										
In						<u> </u>						42 D-1 S	нов	DING	тег								
Out											4	P-1 S	TITE	M NO	. 35								

hibit P-3a																				
ODELS OF SYSTEMS A	FFECTE	S-3B					N	/ODIF	ICATI	ON T	ITLE:	S-3 C	ritical	Avion	ics Up	ograde	(OSIF	20-95)	CAI	NS II
STALLATION INFORMA	TION:																			
ETHOD OF IMPLEMENT	ATION:	FY 97	proto	vne/T	KI was	s proci	ired a	s cont	ractor	"turn-	kev"	FY 98	R and o	out are	- Con	tractor F	Field N	/lod Tea	ım (Air	frame
	, (1101 1 .	1 1 01	proto	уро, г	rti wat	proot	2100 G	5 00111	uotoi	tann	itoy .	1 1 00	, and t	out are	0011	iractor i	1014 11	710G 10G	(7 1	- Taine
MINISTRATIVE LEADT	IME:		4	M	lonths				PRO	DUCT	ION L	EADT	IME:	12		Months	_			
ONTRACT DATES:	FY	2003:			FY	2004:			FY	2005:										
ELIVERY DATE:	FY	2003:	—		FΥ	2004:		-	FY	2005:										
							(\$ in I	Million	s)											
Cost:	Prior	years	FY:	2003	FY 2	2004		2005		2006		2007		2008	FY	2009	To C	omplete	TO	TAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2002 & PY (111) kits	85	.0	22**	2.4	2 ***														109	11.4
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
1 1 2000 () Kits																				
FY 2009 () kits																				

Installation Schedule

	FY 2002		FY 20	03			FY 2	2004			FY 2	2005			FY 2	2006			FY 2	2007	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	85	6	5	5	6	2															
Out	85	4	4	6	6	4															

		FY 20	800			FY	2009		То	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										109
Out										109

NOTE: Two (2) aircraft striken before their scheduled CAINS II install.

Exhibit P-3a		INDIVIDUAL MODIFICATION	N
MODIFICATION TITLE Co-Processor I	Memory Unit (OSIP 04-96)		
MODELS OF SYSTEM AFFECTED:	S-3B		TYPE MODIFICATION: Operational Improvement

DESCRIPTION/JUSTIFICATION:

The Co-Processor Memory Unit (CPMU) replaces the S-3B MMU-576 Drum Memory Storage (DMS) Unit, the OL-230 Post and Display Processor (PDP) and the AN/AYK-10 General Purpose Digital Computer (GPDC). The Operational Requirements Document (ORD) # OR-927-AS was approved 27 Mar 77 and stated the requirement for software and computer capability to support a targeting capability and direct exchange of data between CV, CVW and surface assets. Moreover, the reliability, maintainability, and obsolescence of the DMS, PDP, and GPDC has degraded to levels which significantly hinder the ability to meet aircraft tactical mission requirements. The CPMU development agreement between the U.S. Navy and Canadian Government contained the requirement for an open architecture design which replaced obsolete equipment. The CPMU fully emulates the DMS and replaces 5 WRA's, resulting in significant space/weight savings. CPMU incorporates an open architecture design as a foundation for future processor growth. CPMU will host a mission program written in ADA software language (RDT&E funded). Trainer procurement is for maintenance trainer A and B kits. The ECP for this effort is Loral AYK-23-002 (with revisions) which modifies 65 aircraft and provides growth interfaces to host additional mission equipment. Procurement includes mission enhancements to provide for compatibility with S-3B Surveillance System Upgrade (which encompasses an APS-137 radar and EO/IR sensor) and is in conformance with the ORD cited above.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The Co-Processor Memory Unit (CPMU) program was initiated as a joint U.S. Navy/Canadian industrial base development effort in 1991. A competitive development contract was awarded in FY 1992. Installation of EDM was completed in April 1995. Approval for LRIP was received in June 1996. LRIP production contract was awarded in June 1996. TKI commenced August 1998. Operational Testing was successfully completed in March 1999. Milestone III decision was approved in June 1999. First fleet installs began in June 1999.

FINANCIAL PLAN (TOA, \$ in Millions):

	Prio	Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	1	С	ТО	TAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E (H0489)		38.0		0.4																38.5
PROCUREMENT																				
Installation Kits																				
AYK-23 (SSU) **	2	.1																	2	.1
AYK-23	63	1.3	2	.1															65	1.4
Installation Kits N/R		.3																		.3
Installation Equipment																				
AYK-23 (SSU) **	2	1.9																	2	1.9
AYK-23	63	30.8	2	1.2															65	31.9
Installation Equipment N/R		2.8																		2.8
Engineering Change Orders																				
Data		.3																		.3
Training Equipment	1	.9																	1	.9
Support Equipment		.1																		.1
ILS		1.1		.2																1.3
Other Support		6.6		.9																7.5
Interim Contractor Support																				
Installation Cost	56	1.6	8	.3	2	.1													66	2.0
TOTAL PROCUREMENT	187	47.8	12	2.5	2	.1													201	50.5

Notes:

- 1. Totals do not add due to rounding
- 2. Asterisk indicates amount less than 51K

** AYK-23 (SSU) A&B kits installed at "O" level

Exhibit P-3e MODIFICATION TITLE: Co-Processor Memory Unit (OSIP 04-96) NSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: Field Mod Team ADMINISTRATIVE LEADTIME: 11																							
NSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: Field Mod Team ADMINISTRATIVE LEADTIME: 11	Exhibit P-3a																						
METHOD OF IMPLEMENTATION: Field Mod Team	MODELS OF	SYSTEM	S AFFEC	TED:	S-3B						N	ODIF	CATION	TITLE:	Co-Pro	cessor	Memory	Unit (OSIP 04-	96)			
ADMINISTRATIVE LEADTIME: 11	INSTALLATIO	ON INFOR	MATION	:																			
CONTRACT DATES: FY 2003: 803 FY 2004: FY 2005: DELIVERY DATE: FY 2003: 12/03 FY 2004: FY 2005: SIGN MIllions) Cost:	METHOD OF	IMPLEME	ENTATIO	N:	Field Mod	Team																	
DELIVERY DATE: FY 2003: 12/03 FY 2004: FY 2005: Sin Millions) Cost:	ADMINISTRA	ATIVE LEA	DTIME:			11		Months	_			PROD	OUCTION	N LEAD	TIME:		16	6	Months	_			
DELIVERY DATE: FY 2003: 12/03 FY 2004: FY 2005: (\$ in Millions) Cost:	CONTRACT	DATES:			FY 2003:	8/03	F	Y 2004:		F	FY 2005:												
Cost:	DELIVERY D	ΔΤΕ.					_						_										
Cost:	DELIVERT D				1 1 2000.	12/03	- '	1 2004.		- '	1 2000.		_	Million	c)								
FY 2002 & PY (64) kits		Cost:		Prio	r Years	FY	2003	FY	2004	FY	2005	FY		1		FY	2008	FY	2009		ГС	ТО	TAL
FY 2002 & PY (64) kits				Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2004 () kits FY 2005 () kits FY 2006 () kits FY 2007 () kits FY 2008 () kits TO Complete () kits To Complete of thems for training. Installation Schedule FY 2002 FY 2003 FY 2004 FY 2004 FY 2005 FY 2006 FY 2007 A Prior 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3	FY 2002 8	& PY (64) F	kits	56	1.6		.3	3														64	
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In 56 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1		FY 2002		FY 2	2003			FY:	2004			FY	2005			FY	2006			FY 2	2007		
Out 56 2 2 2 2 2 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 Complete TOTAL In		& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
FY 2008 FY 2009 To 1 2 3 4 1 2 3 4 Complete TOTAL In 66																							
1 2 3 4 1 2 3 4 Complete TOTAL In 66	Out	56	2	2	2	2	2																
In 66			FY 20	800			FY	2009			То												
		1	2	3	4	1	2	3	4	Cor	nplete	TC	OTAL										
Out 66	In												66										
	Out												66										